

Title (en)
Device and method for binarizing image

Title (de)
Vorrichtung und Verfahren zur Binarisierung von Bildern

Title (fr)
Dispositif et procédé de binarisation d'image

Publication
EP 1455299 A3 20060503 (EN)

Application
EP 04002061 A 20040130

Priority
KR 20030006420 A 20030130

Abstract (en)
[origin: EP1455299A2] Disclosed is a device for binarizing an image. The device comprises an input part for receiving an image; a block classification part for dividing the received image into blocks, and classifying the divided blocks into character blocks and background blocks; an edge enhancement part for enhancing edges of a character block using relations between neighboring pixels in the character block classified by the block classification part, and generating a threshold for distinguishing character pixels and background pixels of the character block; and a binarization part for binarizing pixels of character blocks output from the edge enhancement part into a first brightness value for character pixels and a second brightness value for background pixels by comparing the pixels of the character blocks with the threshold, and binarizing pixels of background blocks output from the block classification part into the second brightness value.

IPC 8 full level
H04N 9/00 (2006.01); **G06T 5/00** (2006.01); **G06V 30/162** (2022.01); **H04N 1/403** (2006.01); **H04N 1/409** (2006.01); **G06V 30/10** (2022.01)

CPC (source: EP KR US)
G06T 7/12 (2016.12 - EP US); **G06V 30/162** (2022.01 - EP US); **G06V 30/414** (2022.01 - EP US); **H04N 1/403** (2013.01 - EP US); **H04N 1/4092** (2013.01 - EP US); **H04N 9/00** (2013.01 - KR); **G06T 2207/20021** (2013.01 - EP US); **G06T 2207/20052** (2013.01 - EP US); **G06T 2207/20192** (2013.01 - EP US); **G06V 30/10** (2022.01 - EP US)

Citation (search report)

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